

Two-day training on applicable low-carbon technologies in Thailand

The Energy Efficiency Plan (EEP) 2015-2036 under the Energy Conservation Promotion Act (1992, amended in 2007), Thailand, targets to reduce the energy intensity (EI) by 30% in 2036 compared to the value in 2010. The Nationally Determined Contribution (NDC) of Thailand under the Paris Agreement of the United Nations Framework Convention on Climate Change (UNFCCC) also targets 20% reduction of greenhouse gas (GHG) emissions from the projected business-as-usual (BAU) level by 2030. To achieve these targets, EEP 2015 implements ten measures including enforcement of energy conservation standard at designated factories and buildings. Those designated factories and buildings need to assign a certified Person Responsible for Energy (PRE) for the energy management and reporting the energy data to the Department of Alternative Energy Development and Efficiency (DEDE), Ministry of Energy, annually. Currently there are more than 13,000 PREs for the designated facilities.

The Government of Japan has been supporting the Ministry of Energy, Thailand, for developing the energy reporting system and establishing the Practical Energy Management Training Center under DEDE. The Government of Japan has also supported the Thai Government in promoting application of low-carbon technologies (LCT) through signing an agreement on implementing the Joint Crediting Mechanism (JCM). In relation to that, to further encourage adoption of LCT through raising the awareness of energy managers, two-day practical training is co-organized by the Ministry of the Environment, Japan and DEDE, Ministry of Energy, Thailand.

Objectives:

To encourage adoption of more energy saving measures at designated factories and buildings by improving the understanding of energy auditors and PREs on 1) Japanese energy saving technologies applicable in Thailand; and 2) the ways to improve the energy reporting system being implemented by DEDE.

Date: November 13-14, 2018

Venue: **Day 1:** Training Room, Demonstration Building 1, Second Floor, Practical Energy Management Training Center (**Mini Plant**), Klong 1, Klong Luang, Pathumthani
Day 2: Training Room 2, First Floor, Bureau of Energy Human Resource Development, Department of Alternative Energy Development and Efficiency (DEDE), **Energy Conservation Building in Honour of His Majesty the King**, Klong 5, Klong Luang, Pathumthani

Participants: About 30 Energy auditors and PREs keen to implement energy saving measures

Training fee: Free of charge

Language: Thai and Japanese (simultaneous translation)

Organizers: Ministry of the Environment, Japan and the Department of Alternative Energy Development and Efficiency (DEDE), Ministry of Energy, Thailand

Supported by: Japan International Cooperation Agency (JICA) Thailand Office, Institute for Global Environmental Strategies (IGES), Japan, and Regional Resource Center for Asia and the Pacific, Asian Institute of Technology (AIT-RRC.AP)

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Time	Day 1 (Tuesday, November 13) Training Room, Demonstration Building 1, Practical Energy Management Training Center (Mini Plant), Klong 1, Klong Luang, Pathumthani
8:30-9:30	<i>Registration (A questionnaire sheet on the perception on the energy reporting system will be handed to the participants.)</i>
9:30-10:00	<p>Opening remarks</p> <p>DEDE, Ministry of Energy, Thailand Mr. Amornsak Rangsakorn, Director of Practical Energy Management Training Group, Bureau of Energy Human Resource Development</p> <p>Embassy of Japan Mr. Yoshinori Suga, First Secretary and Alternate Permanent Representative of Japan to ESCAP</p> <p>Objectives and outline of the training Mr. Toshizo Maeda, IGES Kansai</p>
10:00-10:30	<i>Photo session and coffee break</i>
10:30-12:00	<p>Technical session 1: Heat-recovery heat pump</p> <p>Mayekawa MFG Co., Ltd. Mr. Hidehiro Kitayama, Manager, Sales Promotion Dept., Solution Business Div.</p>
12:00-13:00	<i>Lunch</i>
13:00-13:30	Site visit to the Mini Plants
13:30-15:30	<p>Technical session 2: Once-through boiler and steam management system</p> <p>Miura Co., Ltd. Mr. Takashi Sogabe, Section Chief, Maintenance Engineering Section, International Promotion Department</p> <p>Yoshitake Works Thailand Ltd. Mr. Pornchai Rodprasert, Sales Engineer</p>
15:30-16:30	<p><i>Coffee</i></p> <p>Discussion</p> <ol style="list-style-type: none"> 1) Current condition of the energy reporting system and ways to improve it; 2) How energy saving investment is decided in each company/building and what would be helpful to push it forward? <p>Facilitated by Mr. Thanakorn Ruensuk, Senior Human Resource Officer, DEDE</p>
Time	Day 2 (Wednesday, November 14) Training Room 2, First Floor, Bureau of Energy Human Resource Development, DEDE, Energy Conservation Building in Honour of His Majesty the King , Klong 5, Klong Luang, Pathumthani
8:30-9:30	<p><i>Registration (A questionnaire sheet on training requests, improving points, interested energy saving technologies, etc. will be handed to the participants.)</i></p> <p><i>Coffee</i></p>
9:30-9:45	<p>Review of Day 1</p> <p>Key points discussed on Day 1 Mr. Toshizo Maeda, IGES Kansai</p>
9:45-11:00	<p>Technical session 3: Building energy management system (BEMS)</p> <p>Azbil (Thailand) Co., Ltd.</p>

	Mr. Keiji Hashimoto, Assistant General Manager, Building & Factory Solution Division
11:00-12:00	Site visit to the Energy Conservation Building in Honour of His Majesty the King
12:00-13:00	Lunch
13:00-15:30	<p>Technical session 4: Compressed air system and factory energy management system (FEMS) toward Internet of Things (IoT)</p> <p>Hitachi Asia (Thailand) Co., Ltd. Mr. Seiji Shinozaki, General Manager</p> <p>Hitachi Industrial Equipment Systems Co., Ltd. Mr. Akio Yoshizaki, Senior Engineer, Internet of Things Solution Systems Sales Dept., Solution Systems Sales Division</p> <p>Mr. Tsukasa Saito, IGES Fellow</p>
15:30-16:30	<p>Coffee</p> <p>Discussion and wrap up Applicability of the introduced technologies and required supporting measures Facilitated by Dr. Narong Pooyoo, Bureau of Energy Human Resource Development, DEDE</p> <p>Closing remarks DEDE, Ministry of Energy, Thailand Mr. Thanakorn Ruensuk, Senior Human Resource Officer, Bureau of Energy Human Resource Development</p>